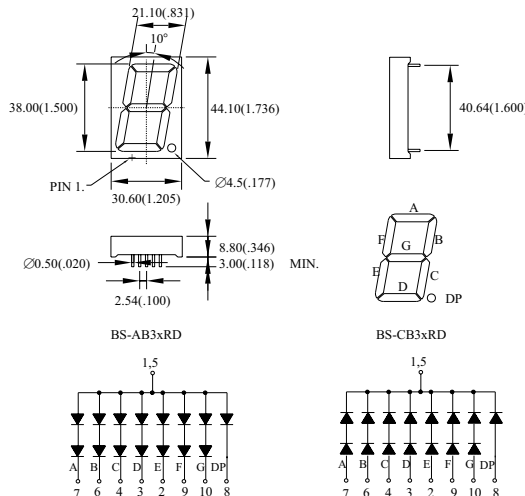
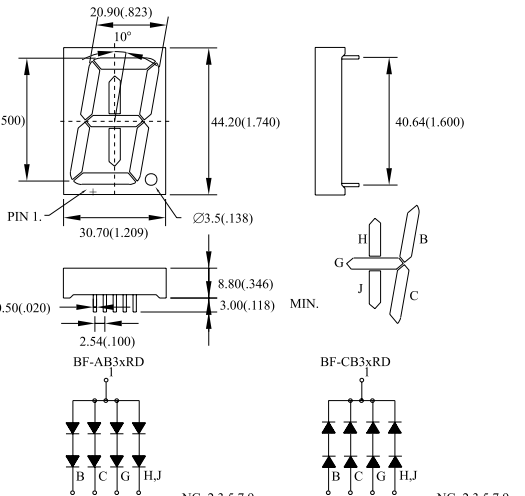
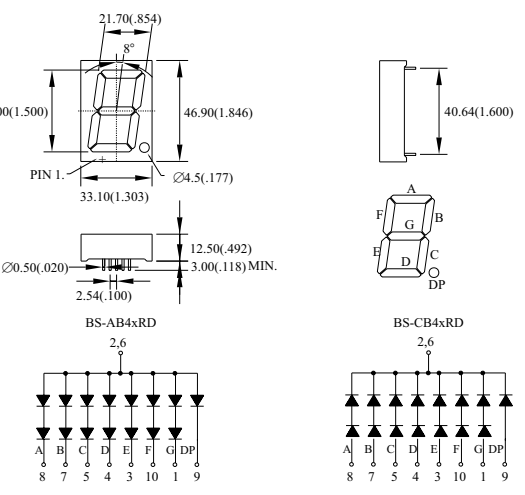
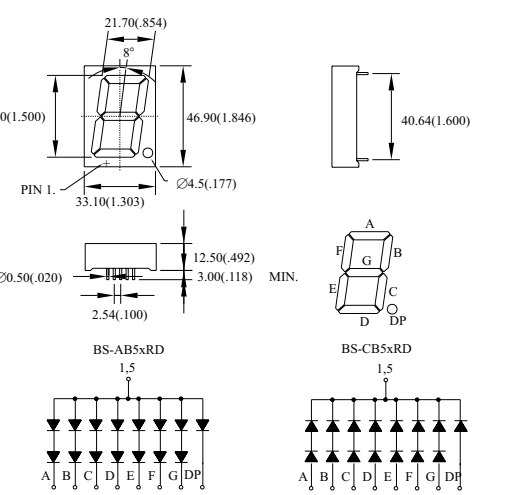
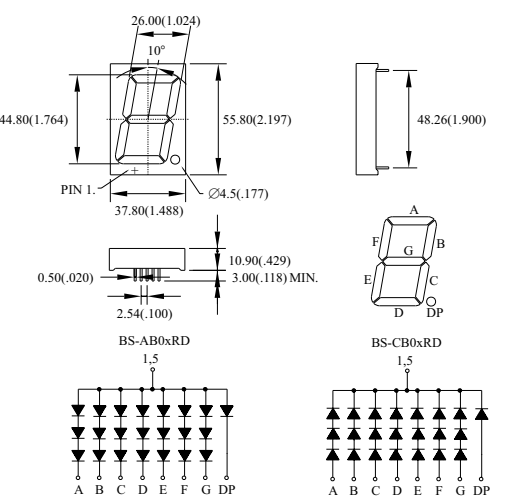
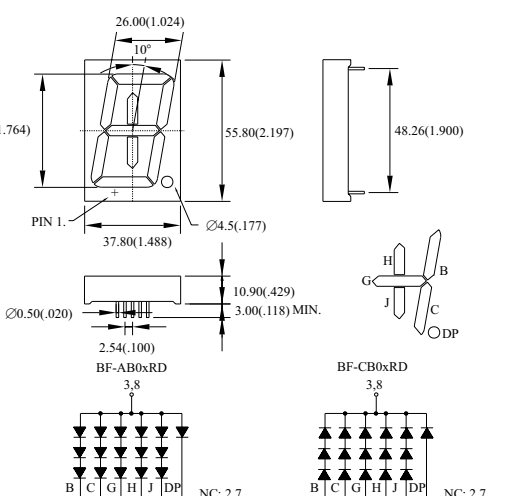


SINGLE DIGIT LED DISPLAYS

Digit Size	Part No.		Chip		Absolute Maximum Ratings				Electro-optical Data(At 10mA)			Drawing No.	
	Common Anode	Common Cathode	Material/Emitted Color	Peak Wave Length λ p(nm)	Δ λ (nm)	Pd (mw)	If (mA)	Ifp (mA)	Vf (v)		Iv. Typ. Per.Seg. (mcd)		
									Typ.	Max.			
1.50" Single-Digit	BS-AB31RD	BS-CB31RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-49	
	BS-AB35RD	BS-CB35RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5		
	BS-AB35RE	BS-CB35RE											
	BS-AB32RD	BS-CB32RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0		
	BS-AB33RD	BS-CB33RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0		
	BS-AB34RD	BS-CB34RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0		
			GaAsP/GaP/ Orange										
	BS-AB36RD	BS-CB36RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0		
BS-AB3FRD	BS-CB3FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0			
1.50" Overflow Single-Digit	BF-AB31RD	BF-CB31RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-50	
	BF-AB35RD	BF-CB35RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5		
	BF-AB35RE	BF-CB35RE											
	BF-AB32RD	BF-CB32RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0		
	BF-AB33RD	FS-CB33RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0		
	BF-AB34RD	BF-CB34RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0		
			GaAsP/GaP/ Orange										
	BF-AB36RD	BF-CB36RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0		
BF-AB3FRD	BF-CB3FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0			
1.50" Single-Digit	BS-AB41RD	BS-CB41RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-51	
	BS-AB45RD	BS-CB45RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5		
	BS-AB45RE	BS-CB45RE											
	BS-AB42RD	BS-CB42RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0		
	BS-AB43RD	BS-CB43RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0		
	BS-AB44RD	BS-CB44RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0		
			GaAsP/GaP/ Orange										
	BS-AB46RD	BS-CB46RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0		
	BS-AB4FRD	BS-CB4FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0		
	1.50" Single-Digit	BS-AB51RD	BS-CB51RD	GaAsP/Red	655	40	160	40	200	3.4	4.0	2.5	SD-52
		BS-AB55RD	BS-CB55RD	GaP/ Bright Red	700	90	80	15	50	4.4	5.0	3.5	
		BS-AB55RE	BS-CB55RE										
BS-AB52RD		BS-CB52RD	GaP/ Green	568	30	160	30	150	4.4	5.0	5.0		
BS-AB53RD		BS-CB53RD	GaAsP/GaP/ Yellow	585	35	160	30	150	4.2	5.0	4.0		
BS-AB54RD		BS-CB54RD	GaAsP/GaP/ Hi-Eff.Red	635	45	160	30	150	4.0	5.0	5.0		
			GaAsP/GaP/ Orange										
BS-AB56RD		BS-CB56RD	GaAlAs/ SH Super Red	660	20	160	30	150	3.4	5.0	10.0		
BS-AB5FRD	BS-CB5FRD	GaAlAs/ DDH Super Red	660	20	160	30	150	4.0	5.0	15.0			
1.80" Single-Digit	BS-AB01RD	BS-CB01RD	GaAsP/Red	655	40	240	40	200	5.1	6.0	4.5	SD-53	
	BS-AB05RD	BS-CB05RD	GaP/ Bright Red	700	90	120	15	50	6.6	7.5	5.5		
	BS-AB05RE	BS-CB05RE											
	BS-AB02RD	BS-CB02RD	GaP/ Green	568	30	240	30	150	6.6	7.5	7.0		
	BS-AB03RD	BS-CB03RD	GaAsP/GaP/ Yellow	585	35	240	30	150	6.3	7.5	6.0		
	BS-AB04RD	BS-CB04RD	GaAsP/GaP/ Hi-Eff.Red	635	45	240	30	150	6.0	7.5	7.0		
			GaAsP/GaP/ Orange										
	BS-AB06RD	BS-CB06RD	GaAlAs/ SH Super Red	660	20	240	30	150	5.1	7.5	12.0		
BS-AB0FRD	BS-CB0FRD	GaAlAs/ DDH Super Red	660	20	240	30	150	6.0	7.5	17.0			
1.80" Overflow Single-Digit	BF-AB01RD	BF-CB01RD	GaAsP/Red	655	40	240	40	200	5.1	6.0	4.5	SD-54	
	BF-AB05RD	BF-CB05RD	GaP/ Bright Red	700	90	120	15	50	6.6	7.5	5.5		
	BF-AB05RE	BF-CB05RE											
	BF-AB02RD	BF-CB02RD	GaP/ Green	568	30	240	30	150	6.6	7.5	7.0		
	BF-AB03RD	BF-CB03RD	GaAsP/GaP/ Yellow	585	35	240	30	150	6.3	7.5	6.0		
	BF-AB04RD	BF-CB04RD	GaAsP/GaP/ Hi-Eff.Red	635	45	240	30	150	6.0	7.5	7.0		
			GaAsP/GaP/ Orange										
	BF-AB06RD	BF-CB06RD	GaAlAs/ SH Super Red	660	20	240	30	150	5.1	7.5	12.0		
BF-AB0FRD	BF-CB0FRD	GaAlAs/ DDH Super Red	660	20	240	30	150	6.0	7.5	17.0			

SD-49 BS-$\overset{A}{C}$B3xRD  Dimensions: 21.10(.831), 10°, 38.00(1.500), 44.10(1.736), 30.60(1.205), 40.64(1.600), 8.80(.346), 3.00(.118) MIN., 2.54(.100), Ø0.50(.020), Ø4.5(.177). Pinout: PIN 1, A, B, C, D, E, F, G, DP, 7, 6, 4, 3, 2, 9, 10, 8. BS-AB3xRD, BS-CB3xRD	SD-50 BF-$\overset{A}{C}$B3xRD  Dimensions: 20.90(.823), 10°, 38.00(1.500), 44.20(1.740), 30.70(1.209), 40.64(1.600), 8.80(.346), 3.00(.118) MIN., 2.54(.100), Ø0.50(.020), Ø3.5(.138). Pinout: PIN 1, A, B, C, D, E, F, G, H, J, 6, 4, 10, 8. BF-AB3xRD, BF-CB3xRD NC: 2,3,5,7,9.
SD-51 BS-$\overset{A}{C}$B4xRD  Dimensions: 21.70(.854), 8°, 38.00(1.500), 46.90(1.846), 33.10(1.303), 40.64(1.600), 12.50(.492), 3.00(.118) MIN., 2.54(.100), Ø0.50(.020), Ø4.5(.177). Pinout: PIN 1, A, B, C, D, E, F, G, DP, 8, 7, 5, 4, 3, 10, 1, 9. BS-AB4xRD, BS-CB4xRD	SD-52 BS-$\overset{A}{C}$B5xRD  Dimensions: 21.70(.854), 8°, 38.00(1.500), 46.90(1.846), 33.10(1.303), 40.64(1.600), 12.50(.492), 3.00(.118) MIN., 2.54(.100), Ø0.50(.020), Ø4.5(.177). Pinout: PIN 1, A, B, C, D, E, F, G, DP, 7, 6, 4, 3, 2, 9, 10, 8. BS-AB5xRD, BS-CB5xRD
SD-53 BS-$\overset{A}{C}$B0xRD  Dimensions: 26.00(1.024), 10°, 44.80(1.764), 55.80(2.197), 37.80(1.488), 48.26(1.900), 10.90(.429), 3.00(.118) MIN., 2.54(.100), Ø0.50(.020), Ø4.5(.177). Pinout: PIN 1, A, B, C, D, E, F, G, DP, 7, 6, 4, 3, 2, 9, 10, 8. BS-AB0xRD, BS-CB0xRD	SD-54 BF-$\overset{A}{C}$B0xRD  Dimensions: 26.00(1.024), 10°, 44.80(1.764), 55.80(2.197), 37.80(1.488), 48.26(1.900), 10.90(.429), 3.00(.118) MIN., 2.54(.100), Ø0.50(.020), Ø4.5(.177). Pinout: PIN 1, A, B, C, D, E, F, G, H, J, DP, 6, 4, 10, 9, 1, 5. BF-AB0xRD, BF-CB0xRD NC: 2,7.

NOTES: 1.All Dimensions are in millimeters(inches).
3.Specifications are subject to change without notice.

2.Tolerance is $\pm 0.25\text{mm}(.010'')$.
4.NP:No Pin. 5.NC:No Connect.